Phillips 66
Bayway Refinery
P.O. Box 222
1400 Park Avenue
Linden, New Jersey 07036

Certified Mail - RRR
7013 2250 0001 8436 3045

March 1, 2016

2015 Annual Export Report
NJD986645984

Office of Enforcement and Compliance Assurance
Office of Federal Activities
International Compliance Assurance Division (2254A)
Environmental Protection Agency
1200 Pennsylvania Avenue, NW,
Washington, DC 20460

Dear Sir/Madam:

As required by Federal regulations 40 CFR Sections 262.56 and 262.87(a), please find the Annual Report of Hazardous Waste Exports for calendar year 2015 and waste minimization statement for the Phillips 66 Company owned and operated Bayway Refinery.

Please contact me at (908) 523-6022 if you need additional information.

Sincerely,

Anthony Leake

Anthony Leake
Senior Environmental Consultant

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS

1. **PRIMARY EXPORTER** (Consignor)
   Name: Phillips 66 Company / Bayway Refinery
   EPA ID No. NJD986645984
   Mailing Address: 1400 Park Ave.
   City: Linden State: New Jersey Zip: 07036

2. **CALENDAR YEAR** 2015

3. **CONSIGNEE**
   Name: Clean Harbors Canada, Inc.
   Address RR#1, 4090 Telfer Road
   Corunna, Ontario, Canada N0N 1G0
   EPA ID No.: MIR000035204

4a. **DESCRIPTION OF WASTE**
   Petroleum refinery primary oil/water/solids separation sludge

4b. **EPA Waste Number(s):** F037

4c. **DOT Hazard Class:** 9

4d. **TRANSPORTER No. 1:** Name: Freehold Cartage Inc.
   EPA ID No.: NJD054126164

   TRANSPORTER No. 2: Name: US Environmental
   EPA ID No.: PAR000524041

   TRANSPORTER No. 3: Name: Horwith Trucks, Inc.
   EPA ID No.: PAD146714878

   TRANSPORTER No. 4:

   Name: Clean Harbors Environmental Services, Inc.
   EPA ID No.: MAD039322250

4e. **Number of shipments during the Calendar Year:** 315

4f. Total tons of waste shipped during the Calendar Year : 6,416.3

2

5. WASTE MINIMIZATION STATEMENT

The Bayway Refinery utilizes crude petroleum as feed stock to produce a complete line of fuel products as well as petrochemical feed stocks and specialty products. During the various operations which occur at the refinery (refining, pumping, storage, transfer, etc.) oily process wastewater is generated and conveyed to storm water units receiving dry weather flow and to other conveyances. A source reduction program has been implemented and is continuously being improved

F037 primary sludge is generated from the gravitational separation of oil, water and solids during the storage of process waste waters in these storm water units. Oil and oily emulsions are recovered, pumped to skimmed oil tanks and utilized as raw material feed stock in the refinery's production process.

Water separates by gravity and is conveyed via a segregated sewer system to the API separators of the refinery's wastewater treatment plant. The water phase is discharged to surface waters in compliance with the refinery's existing NPDES permit after treatment by phase separation, neutralization, equalization, activated sludge oxidation, clarification, dissolved air floatation and mixed media filtration.

Oily solids settle to the bottom of the storm water units and are periodically removed by mechanical means. These listed hazardous waste solids are shipped off-site for treatment and disposal at properly licensed facilities.

The Bayway Refinery is taking source reduction action to reduce the volume and the toxicity of materials generated by segregating and processing wastes, whenever feasible, upstream before they enter the process sewer system and become a federal listed hazardous waste. A stripper tower upstream of the wastewater treatment plant removes substantial amounts of benzene and other volatile organic constituents. Once-through cooling water and uncontaminated rainwater from the refinery's tank fields are segregated from the process water collection and treatment system.

The oil content, and therefore the toxicity, in off-site shipments were reduced by skimming gravity separated oil from the sludge. A significant quantity of clean oil was recovered and reintroduced to the refining process.

The Bayway Refinery has considered several waste management method alternatives. Since the primary sludge contains a high component of inorganic sand, sediment and grit and has a very low BTU content, the Bayway Refinery believes the present waste management method to be an environmentally and economically sound option with waste volume reductions comparable to past year activity.

6. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name of Responsible Official: Anthony Leake **Title:** Sr Environmental Consultant

Signed: Anthony J Leake **Date:** 3-1-2016

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First Class Mail

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Washington, DC 20460

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